

Thermoplastic polyurethane comprising silane groups

Abstract

- 5 The invention relates to a thermoplastic polyurethane comprising the following structural unit:



- 10 where:

R is an aliphatic, araliphatic, or aromatic organic radical having from 1 to 20 hydrocarbon atoms,

- 15 R₁ is an alkyl radical or aryl radical having from 1 to 10 carbon atoms,

R₂ is -NR₃-CO-R₄ or -O-R₅-O-,

- 20 R₃ is a section of the polymer chain of the thermoplastic polyurethane, in particular a radical which derives from the diisocyanate used to prepare the thermoplastic polyurethane,

- 25 R₄ is a section of the polymer chain of the thermoplastic polyurethane, in particular a radical which derives from the following compounds used to prepare the thermoplastic polyurethane: compounds (b) reactive toward isocyanates, or from the chain extender (c),

R₅ is an alkylene radical having from 2 to 8 carbon atoms, preferably from 3 to 6 carbon atoms, and

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x is 1, 2 or 3.